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Application Serial Number: 10/091,166

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Revised 01/29/2002

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/091,166

DATE: 03/20/2002
TIME: 16:27:03

Error on p. 3 + throughout

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```
   5 <110> APPLICANT: Adler, David A.
   6         Holloway, James L.
  ,7         Baindur, Nand
   8         Beigel-Orme, Stephanie
   9         Sheppard, Paul O.
  11 <120> TITLE OF INVENTION: NOVEL BETA-DEFENSINS
  14 <130> FILE REFERENCE: 97-44C1
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/091,166
C--> 16 <141> CURRENT FILING DATE: 2002-03-05
  16 <150> PRIOR APPLICATION NUMBER: 60/058,335
  17 <151> PRIOR FILING DATE: 1997-10-09
  19 <150> PRIOR APPLICATION NUMBER: 60/064,294
  20 <151> PRIOR FILING DATE: 1997-11-05
  22 <150> PRIOR APPLICATION NUMBER: 09/150,786
  23·<151> PRIOR FILING DATE: 1998-09-10
  25 <160> NUMBER OF SEQ ID NOS: 72
  27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
  29 <210> SEQ ID NO: 1
  30 <211> LENGTH: 219
  31 <212> TYPE: DNA
  32 <213> ORGANISM: Homo sapiens
  34 <220> FEATURE:
  35 <221> NAME/KEY: CDS
  36 <222> LOCATION: (1)...(195)
  38 <400> SEQUENCE: 1
  39  atg agg atc cat tat ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg      48
  40  Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
W--> 41  1               5                   10              . 15
  43  cct gtt cca ggt cat gga gga atc ata aac aca tta cag aaa tat tat      96
  44  Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
W--> 45          20                  25  ·              30
  47  tgc aga gtc aga ggc ggc cgg tgt gct gtg ctc agc tgc ctt cca aag     144
  48  Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
W--> 49          35                  40                  ·45
  51  gag gaa cag atc ggc aag tgc tcg acg cgt ggc cga aaa tgc tgc cga     192
  52  Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
W--> 53          50                  55                  60
  54  aga aagaaataaa aaccctgaaa catg                                      219
  55  Arg
  56  65
  59 <210> SEQ ID NO: 2
  60 <211> LENGTH: 65
  61 <212> TYPE: PRT
```

Amino acid numbering is misaligned. FYI: pls use space bar, not tab key.

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Input Set : A:\97-44D1.txt
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```
 62 <213> ORGANISM: Homo sapiens
 64 <400> SEQUENCE: 2
 65 Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
 66  1               5                  10                  15
 67 Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
 68              20                  25                  30
 69 Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
 70          ·35                  40                  45
 71 Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
 72      50                  55                  60
 73 Arg
 74 65
 76 <210> SEQ ID NO: 3
 77 <211> LENGTH: 31
 78 <212> TYPE: PRT
 79 <213> ORGANISM: Artificial Sequence
 81 <220> FEATURE:
 82 <223> OTHER INFORMATION: Cysteine motif of the Beta-defensin family
 84 <221> NAME/KEY: VARIANT
 85 <222> LOCATION: (2)...(7)
 86 <223> OTHER INFORMATION: Xaa2 is independently any amino acid residue,
 87       preferably not cysteine.
 88       Xaa3 is independently any amino acid residue,
 89       preferably not cysteine.
W--> 90  Xaa4 is independently any amino acid residue,
W--> 91       preferably not cysteine.
W--> 92  Xaa5 is independently any amino acid residue,
W--> 93       preferably not cysteine.
W--> 94  Xaa6 is independently any amino acid residue,
W--> 95       preferably not cysteine.
W--> 96  Xaa7 is independently any amino acid residue,
W--> 97       preferably not cysteine.
 99 <221> NAME/KEY: VARIANT
100 <222> LOCATION: (9)...(12)
101 <223> OTHER INFORMATION: Xaa9 is independently any amino acid residue,
102       preferably not cysteine.
103       Xaa10 is independently any amino acid residue,
104       preferably not cysteine.
W--> 105 Xaa11 is independently any amino acid residue,
W--> 106      preferably not cysteine.
W--> 107 Xaa12 is independently any amino acid residue,
W--> 108      preferably not cysteine.
110 <221> NAME/KEY: VARIANT
111 <222> LOCATION: (14)...(20)
112 <223> OTHER INFORMATION: Xaa14 is independently any amino acid residue,
113       preferably not cysteine.
114       Xaa15 is independently any amino acid residue,
115       preferably not cysteine.
W--> 116 Xaa16 is independently any amino acid residue,
```

[handwritten annotations in right margin: "Moved no. of lines Rceeded" and "Same"]

```
W--> 117          preferably not cysteine.
W--> 118          Xaa17 is independently any amino acid residue,
W--> 119          preferably not cysteine.
W--> 120          Xaa18 is independently any amino acid residue,
W--> 121          preferably not cysteine.
W--> 122          Xaa19 is independently any amino acid residue,
W--> 123          preferably not cysteine.
W--> 124          Xaa20 is independently any amino acid residue,
W--> 125          preferably not cysteine.
     127 <221> NAME/KEY: VARIANT
     128 <222> LOCATION: (22)...(22)
     129 <223> OTHER INFORMATION: Xaa is any amino acid residue, preferably not
     130          cysteine
     132 <221> NAME/KEY: VARIANT
     133 <222> LOCATION: (24)...(29)
     134 <223> OTHER INFORMATION: Xaa24 is independently any amino acid residue,
     135          preferably not cysteine.
     136          Xaa25 is independently any amino acid residue,
     137          preferably not cysteine.
W--> 138          Xaa26 is independently any amino acid residue,
W--> 139          preferably not cysteine.
W--> 140          Xaa27 is independently any amino acid residue,
W--> 141          preferably not cysteine.
W--> 142          Xaa28 is independently any amino acid residue,
W--> 143          preferably not cysteine.
W--> 144          Xaa29 is independently any amino acid residue,
W--> 145          preferably not cysteine.
     147 <400> SEQUENCE: 3
W--> 148  Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
     149   1           5                10               15
W--> 150  Xaa Xaa Xaa Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys
     151              20               25               30
     153 <210> SEQ ID NO: 4
     154 <211> LENGTH: 213
     155 <212> TYPE: DNA
     156 <213> ORGANISM: Artificial Sequence
     158 <220> FEATURE:
     159 <223> OTHER INFORMATION: Degenerate nucleotide encoding the polypeptide of
     160          SEQ ID NO:2
     162 <221> NAME/KEY: variation
     163 <222> LOCATION: (1)...(213)
     164 <223> OTHER INFORMATION: Nucleotides 12, 15, 21, 24, 27, 33, 39, 42, 45,
     165          48, 51, 54, 60, 63, 75, 78, 98, 99, 100, 106, 109,
     166          112, 115, 118, 121, 127, 130, 133, 136, 142, 145,
     167          163, 172, 175, 178, 181, 184, 196, and 199 are
W--> 168          each independently A, T, G or C.
     170 <400> SEQUENCE: 4
W--> 171  athcaytayy tnytnttygc nytnytnttty ytnttyytng tnccngtncc nggncayggn     60
W--> 172  ggnathatha ayacnytnca raartrrnnn tgymgngtnm gnggnggnmg ntgygcngtn    120
```

(handwritten annotations: "same", "same", "88,89,90,96,99 etc.", "numbering is off by 10 count")

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PATENT APPLICATION: US/10/091,166   TIME: 16:27:03

Input Set : A:\97-44D1.txt
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```
W--> 173   ytnwsntgyy tnccnaarga rgarcarath ggnaartgyw snacnmgngg nmgnaartgy     180
W--> 174   tgymgnmgna araartrraa rccntrraay atg                                  213
     176   <210> SEQ ID NO: 5
     177   <211> LENGTH: 20
     178   <212> TYPE: DNA
     179   <213> ORGANISM: Artificial Sequence
     181   <220> FEATURE:
     182   <223> OTHER INFORMATION: Oligonucleotide ZC14741
     184   <400> SEQUENCE: 5
     185   gagcacttgc cgatctgttc                                                  20
     187   <210> SEQ ID NO: 6
     188   <211> LENGTH: 20
     189   <212> TYPE: DNA
     190   <213> ORGANISM: Artificial Sequence
     192   <220> FEATURE:
     193   <223> OTHER INFORMATION: Oligonucleotide ZC14740
     195   <400> SEQUENCE: 6
     196   ccaggtcatg gaggaatcat                                                  20
     198   <210> SEQ ID NO: 7
     199   <211> LENGTH: 18
     200   <212> TYPE: DNA
     201   <213> ORGANISM: Artificial Sequence
     203   <220> FEATURE:
     204   <223> OTHER INFORMATION: Oligonucleotide ZC14780
     206   <400> SEQUENCE: 7
     207   ggaggaatca taaacaca                                                    18
     209   <210> SEQ ID NO: 8
     210   <211> LENGTH: 18
     211   <212> TYPE: DNA
     212   <213> ORGANISM: Artificial Sequence
     214   <220> FEATURE:
     215   <223> OTHER INFORMATION: Oligonucleotide ZC14776
     217   <400> SEQUENCE: 8
     218   gccgatctgt tcctcctt                                                    18
     220   <210> SEQ ID NO: 9
     221   <211> LENGTH: 438
     222   <212> TYPE: DNA
     223   <213> ORGANISM: Homo sapiens
     225   <220> FEATURE:
     226   <221> NAME/KEY: CDS
     227   <222> LOCATION: (220)...(420)
     229   <400> SEQUENCE: 9
     230   acaaatccat agggagctct gccttaccat tgggttccta attaactgag tgagtgggtg      60
     231   tgttctgcat ggtgagaggc attggaatga tgcatcagaa aacatgtcat aatgtcatca     120
     232   ctgtaatatg acaagaattg cagctgtggc tggaaccttt ataaagtgac caagcacacc     180
     233   ttttcatcca gtctcagcgt ggggtgaagc ctagcagct atg agg atc cat tat       234
     234                                             Met Arg Ile His Tyr
     235                                             1               5
     237   ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg cct gtt cca ggt cat      282
```

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                RAW SEQUENCE LISTING              DATE: 03/20/2002
                PATENT APPLICATION:  US/10/091,166   TIME: 16:27:03

                Input Set : A:\97-44D1.txt
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    238  Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val Pro Val Pro Gly His
    239                  10                  15                  20
    241  gga gga atc ata aac aca tta cag aaa tat tat tgc aga gtc aga ggc    330
    242  Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr Cys Arg Val Arg Gly
    243              25                  30                  35
    245  ggc cgg tgt gct gtg ctc agc tgc ctt cca aag gag gaa cag atc ggc    378
    246  Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys Glu Glu Gln Ile Gly
    247          40                  45                  50
    249  aag tgc tcg acg cgt ggc cga aaa tgc tgc cga aga aag aaa           420
    250  Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg Arg Lys Lys
    251          55                  60                  65
    253  taaaaaccct gaaacatg                                               438
    255  <210> SEQ ID NO: 10
    256  <211> LENGTH: 67
    257  <212> TYPE: PRT
    258  <213> ORGANISM: Homo sapiens
    260  <400> SEQUENCE: 10
    261  Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
    262  1                 5                  10                  15
    263  Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
    264              20                  25                  30
    265  Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
    266          35                  40                  45
    267  Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
    268      50                  55                  60
    269  Arg Lys Lys
    270  65
    272  <210> SEQ ID NO: 11
    273  <211> LENGTH: 219
    274  <212> TYPE: DNA
    275  <213> ORGANISM: Artificial Sequence
    277  <220> FEATURE:
    278  <223> OTHER INFORMATION: Degenerate nucleotide sequence encoding the
    279       polypeptide of SEQ ID NO:10
    281  <221> NAME/KEY: variation
    282  <222> LOCATION: (1)...(219)
    283  <223> OTHER INFORMATION: Nucleotides 6, 18, 21, 27, 30, 33, 39, 45, 48, 51,
    284       54, 57, 60, 66, 69, 81, 84, 94, 95, 96, 102, 105,
    285       108, 111, 114, 117, 123, 126, 129, 132, 138, 141,
    286       159, 168, 171, 174, 177, 180, 192, 195, and 210
W-->287      are each independently A, T, C, or G.
    289  <400> SEQUENCE: 11
W-->290  atgmgnathc aytayytnyt nttygcnytn ytnttyytnt tyytngtncc ngtnccnggn    60
W-->291  cayggnggna thathaayac nytncaraar trrnnntgym gngtnmgngg nggnmgntgy    120
W-->292  gcngtnytnw sntgyytncc naargargar carathggna artgywsnac nmgnggnmgn    180
W-->293  aartgytgym gnmgnaaraa rtrraarccn trraayatg                          219
    295  <210> SEQ ID NO: 12
    296  <211> LENGTH: 21
    297  <212> TYPE: DNA
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VERIFICATION SUMMARY   DATE: 03/20/2002
PATENT APPLICATION: US/10/091,166   TIME: 16:27:04

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```
L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:41 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:49 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:53 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:90 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:91 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:92 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:93 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:94 M:259 W: Allowed number of lines exceeded, <223> Other Information: .
L:95 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:96 M:259 W: Allowed number of lines·exceeded, <223> Other Information:
L:97 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:105 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:106 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:107 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:108 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:116 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:117 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:118 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:119 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:120 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:121 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:122 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:123 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:124 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:125 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:138 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:139 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:140 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:141 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:142 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:143 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:144 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:145 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:168 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:287 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
```

VERIFICATION SUMMARY   DATE: 03/20/2002
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                    Input Set : A:\97-44D1.txt
                    Output Set: N:\CRF3\03202002\J091166.raw

```
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:1277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
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